

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Bryan D. Skene et al.

Patent No.: 7,047,301

Issued: May 16, 2006

For: METHOD AND SYSTEM FOR ENABLING
PERSISTENT ACCESS TO VIRTUAL
SERVERS BY AN LDNS SERVER

**REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.322**

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted several errors which should be corrected.


In the Specification:

Column 1, Line 67, Delete "persistence)." And insert -- (persistence). --.

Column 15, Line 61, In Claim 7, delete "requester," and insert --requestor, --.

Column 16, Line 6, In Claim 10, delete "enviroment," and insert --environment,--.

The errors were not in the application as filed by applicant; accordingly no fee is required.

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Enclosed please find copies of of the specification and claims.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment.
Patentee respectfully solicits the granting of the requested Certificate of Correction.

Dated: September 6, 2006

Respectfully submitted,

By 

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

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PATENT NO. : 7,047,301
APPLICATION NO. : 09/773,427
ISSUE DATE : May 16, 2006
INVENTOR(S) : Bryan D. Skene et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

Column 1, Line 67, Delete "persistence)." And insert -- (persistence). --.

Column 15, Line 61, In Claim 7, delete "requester," and insert --requestor, --.

Column 16, Line 6, In Claim 10, delete "enviroment," and insert --environment,--.

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will establish a session. In the middle of a transaction, the user may decide to discontinue the session and visit a different website or engage in another activity which closes the session the user has with the server containing the shopping cart items. Later, the user may decide to complete the transaction and purchase the items previously placed in the shopping cart. When the user returns to the retailer's website, the user may find that the shopping cart no longer contains the items the user previously selected. This may occur because the user's requests are not referred to the same server. When the user returns to complete the transaction, the user's request may be referred to a server that is unaware of the user's previous actions, e.g., placing items in the shopping cart.

Generally, the more layers of load balancing that are employed, the more difficult it becomes to refer a user's request to the same server. For example, when no load balancing is employed, e.g. when a company only employs one Web server and all requests are serviced by the server, the user requests only have one server to go to. To maintain a shopping cart for the user, the Web server needs to recognize that the request comes from a prior user and retrieve the appropriate data, e.g., the items in the shopping cart.

When a company has servers managed by a SAC, more is required to provide that all of one user's requests go to the same server (persistence). Merely having the server recognize that a request comes from a prior user is not usually enough. Without information sharing among servers, if the SAC refers a subsequent request to a different server, the different server usually will have no information about what items the user had in a shopping cart. Therefore, in addition to the server recognizing a subsequent request from the user and retrieving the appropriate information, the SAC should refer the subsequent request to the server the SAC referred the user's prior requests to.

When a company has SACs load balanced by a WAN load balancing mechanism, even more is required to provide for persistence. A large company may have server arrays placed in several geographical areas with each server array managed by a SAC. Information available to a SAC such as user IP address may not be available

- (c) employing the new value for N to select another virtual server array.
5. (Previously presented) The method of Claim 3, wherein a requestor communicates with a client through a web proxy.
6. (Canceled)
7. (Previously presented) The method of Claim 3, wherein the selected server array controller associates a requestor with a virtual server that includes the resource, wherein the virtual server is managed by the selected server array controller.
8. (Previously presented) The method of Claim 3, further comprising storing information associated with the request.
9. (Previously presented) The method of claim 8, wherein the information includes an IP address associated with a requestor, another IP address associated with the selected server array controller, and a time value for controlling how long information is valid.
10. (Previously presented) The method of Claim 3, wherein each subsequent request is made by any one of a plurality of LDNS servers.
11. (Previously presented) The method of claim 3, wherein the selected server array controller manages at least one virtual server that provides access to the resource.
12. - 33. (Canceled)
34. (Currently amended) A ~~processor-computer~~ readable medium that stores ~~processor~~ executable data for enabling actions for a client to access a resource on a wide area network environment, the actions comprising:
- (a) a first component receiving a request for the resource from a connection that is associated with the client;
- (b) a second component selecting a method for load balancing each request from the connection, wherein the selected load balancing method employs modulus arithmetic to select a virtual server managed by the selected server array controller based on actions, including: